

PHILIP MORRIS U. S. A.

To: Mr. J. E. Wickham

Date: April 15, 1983

**From:** Cynthia C. Bright

**Subject:** . Chemical Composition of Strip and Stems on a Dry Weight Basis

The attached tables contain comparative data for the chemical analyses of representative samples of cured bright strip, bright stems, burley strip, burley stems, and oriental leaf. These tobacco samples were analyzed by General Analytical Section in accordance with standard methods described in the Methods Manual.

The data listed in Table I originated from the annual leaf market surveys performed by Ron Grizzel. These data represent average values for composite samples of floor grades from each of four growing belts. All data in this report have been corrected to a dry weight basis.

The data in Table II originated from work performed by Gordon Bokelman reported in Tobacco Cell Wall Research Annual Report, Accession Number 83-056, March 31, 1983. These data were obtained from 1980 E-55 bright lamina and stems and 1981 DBC burley lamina and stems.

These tables can serve as a guide in the Cigarette Testing Services Division for average or expected levels for various chemical constituents in the lamina and stem. For example, total reducing sugars are not reported for burley strip and stems since the total reducing sugars levels typically fall below 2.0%. Analogously, soluble ammonia is reported for burley samples and not reported for bright samples. Also, Gordon Bokelman has reported that approximately 61% of the total ash value for both burley and bright yielded a good estimate of the total contents of potassium, calcium, chloride, sulfate, phosphorus, silicon and magnesium. These tables will serve as a general reference which will help to evaluate data for reasonableness and to interpret trends.

CCB: rad

cc: Mr. L. F. Meyer  
Mr. W. Kuhn  
Ms. K. T. Sanderson  
Mr. F. M. Sprinkel  
Ms. H. Gray  
Ms. J. G. Lightner  
Mr. S. W. Laffoon  
Mr. E. C. Chambers  
Mr. G. Bokelman  
Mr. R. Grizzel  
Mr. R. M. Wiley  
Ms. B. Handy  
Central File

C. C. Bright

PM3000982448